

AMENDMENTS TO THE CLAIMS:

Please cancel without prejudice claims 4, 20 and 22 and amend claims 1, 12 and 18 as follows.

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (*currently amended*) A system for imaging the contents of a container, the system comprising:

an passive imager responsive to received millimetre wave radiation from a reception volume, said imager including at least one receive antenna, wherein the reception volume is smaller than an internal volume of the container, and there is relative movement between the container and the reception volume such that the reception volume moves through the container; ~~and~~

a computer system for recording data relating to said received millimetre wave radiation from the reception volume at a plurality of different times during the relative movement between the reception volume and the container, and for combining the data and producing a composite image of the contents of the container; and

speed measurement equipment for measuring the speed of the container relative to the receive antenna during at least part of the data recording, and the speed measurement is used as a parameter when creating the composite image..

2. *(previously presented)* A system as claimed in claim 1 wherein the container is mounted on a vehicle.

3. *(previously presented)* A system as claimed in claim 1 wherein the imaging system is stationary and the container is moving.

4. *(cancelled)*

5. *(previously presented)* A system as claimed in claim 1 where the speed of the container is controlled for the duration of data recording.

6. *(previously presented)* A system as claimed in claim 1 wherein said at least one receive antenna has an axis and the axis is not perpendicular to a direction of relative movement of the container and receive antenna.

7. *(previously presented)* A system as claimed in claim 1 wherein said at least one receive antenna comprises a plurality of receive antennas for gathering data from a plurality of reception volumes.

8. *(previously presented)* A system as claimed in claim 1 wherein the image may be manipulated to allow views of the container contents from different angles.

9. *(previously presented)* A system as claimed in claim 8 wherein the manipulation allows the user to view stereoscopic images of the container contents.

10. *(previously presented)* A system as claimed in claim 1 wherein said at least one receive antenna comprises a plurality of receiving elements arranged in an array.

11. *(previously presented)* A system as claimed in claim 10 wherein the plurality of receiving elements are arranged in a substantially linear array.

12. *(currently amended)* A system as claimed in claim 11 wherein the substantially linear array has a major axis ~~perpendicular~~parallel to the direction of relative movement between the container and the imaging system.

13. *(previously presented)* A system as claimed in claim 1 wherein said at least one receive antenna has a directional receive beam pattern and the reception volume is scanned by changing with time the direction of said receive beam pattern.

14. *(previously presented)* A system as claimed in claim 13 wherein the change in direction is effected by conically scanning the direction of each receive beam pattern.

15. *(previously presented)* A system as claimed in claim 13 wherein a focal plane of the reception volume viewed from the receive antenna comprises an area from which no radiation is received during a complete cycle of the scanning system that is completely surrounded by an area from which radiation is received during the scan.

16. *(previously presented)* A system as claimed in claim 10, further including a second array of receive elements displaced from the first array so as to receive energy from a different focal plane from the first array.

17. *(previously presented)* A system as claimed in claim 1 wherein the data is analysed by image recognition software that is pre programmed with images or characteristics of contraband items, such that when a match is found between the image data and at least one of the contraband items an alert is sent to an operator.

18. *(currently amended)* A method of imaging the contents of a container where the container is moving relative to a receive antenna of the imaging system, said method comprising the steps of:

arranging an passive imager to receive millimetre wave radiation from a reception volume through the receive antenna;

positioning the reception volume such that the relative movement causes the reception volume to move through the container;

measuring the speed of the container relative to the imager at at least one point
when the reception volume is inside the container;

recording data from the imager as the reception volume is moved through the
container; and

compiling an image of the contents of the container from the data, using the
measured speed as a parameter.

19. *(previously presented)* A method as claimed in claim 18 where the receive
antenna is arranged to be stationary, and the container arranged to be moving.

20. *(cancelled)*

21. *(previously presented)* A method as claimed in claim 18 where the speed of the
container is controlled for the duration the reception volume is inside the container.

22. *(cancelled)*

23. *(previously presented)* A system as claimed in claim 1, further including
processing means for re-scaling the image produced by the imager to bring the image of
an item of known relative dimensionality into correct proportion.